that this correspondence is In the United States Postal Service Elent postage as First Class Mail in an ope addressed to: Assistant Commissioner for Patents, Washington, D.C. 20231, on: January 24, 2002. 4Roust 6 U.S. PATENT AND TRADEMARK OFFICE 7 In re Application of: Dawei Dong Examiner: Leon Scott, Jr. Art Unit: 2881 Title: Laser Level Application No. 08/936,304 Attorney Docket No. Black & Decker 703 10 Filing date: September 24, 1997 11 12 **DECLARATION OF JERRY Y. TENG** 13 14 **Assistant Commissioner for Patents** 15 Washington, D.C. 20231 16 17 I, Jerry Y. Teng, hereby declare the following: 18 19 I am the Executive Director of the DeWalt Santa Clara Laser Engineering Center. 1. 20 21 2. I have a Bachelor of Science degree in electrical engineering, which I obtained in 22 1985 from the University of Washington. 23 24 3. I have been working in the field of laser level systems for about seven years. 25 4. I have reviewed U.S. Patent No. 5,754,582 ("the '582 Patent"). 26 27 5. The '582 Patent discloses a motor coupled to the shaft adapted to drive the shaft 28 more than 360 degrees in a single direction in plane mode. 29 30

6. In particular, the '582 Patent discloses a DC motor 14 having a shaft 100 with a small pulley 20 fitted thereon. The '582 Patent, col. 6, lines 51-52. The main pulley 24 is coupled to a small pulley 20 by means of a pulley belt 22. The '582 Patent, col. 6, lines 46-47. The main pulley 24 in turn has a set of upper magnets 25 secured thereto. The '582 Patent, col. 6, line 43. The upper magnets 25 magnetically couple to the lower magnets 26, which are disposed on a free wheel 32. The '582 Patent, col. 7, lines 1-13. The free wheel 32 is rigidly attached to a main shaft 37. The '582 Patent, col. 6, lines 58-59. The main shaft 37 is part of the module housing 36 containing laser diode modules 38, 39. The '582 Patent, col. 6, lines 27-31.

- 7. With such arrangement, as the DC motor 14 rotates, the small pulley 20 rotates the pulley belt 22, which drives the main pulley 24. The rotation of the main pulley 24 and the attractive force between the upper magnets 25 and the lower magnets 26 will cause the free wheel 32 to rotate, which causes the main shaft 37, the module housing 36 and the laser diode modules 38, 39 to rotate until power to motor 14 is interrupted. The '582 Patent, col. 7, lines 8-13.
- 8. Until such power is interrupted, motor 14 will continue to rotate the small pulley 20 and ultimately the main shaft 37 and the module housing 36 well past 360 degrees to generate a level plane of reference light. The '582 Patent, col. 9, lines 23-26. When in plane mode, the laser level accordingly provides "a level 360 degree reference plane." The '582 Patent, Abstract, lines 12-13.
- 9. The '582 Patent also discloses a motor coupled to the shaft adapted to rotatably drive the shaft, as well as the shaft being rotated so that the first and second laser diodes produce the level 360 degree reference plane.
- 10. In particular, the '582 Patent discloses a DC motor 14 having a shaft 100 with a small pulley 20 fitted thereon. The '582 Patent, col. 6, lines 51-52. The main pulley 24 is coupled to a small pulley 20 by means of a pulley belt 22. The '582 Patent, col. 6, lines 46-47. The main pulley 24 in turn has a set of upper magnets 25 secured thereto. The '582 Patent, col. 6, line 43. The upper magnets 25 magnetically couple to the lower magnets 26, which are disposed on a free wheel 32. The '582 Patent, col. 7, lines 1-13. The free wheel 32 is rigidly attached to the main shaft 37. The '582 Patent, col. 6, lines 58-59. The main shaft 37 is part of the module housing 36 containing the laser diode modules 38, 39. The '582 Patent, col. 6, lines 27-31.

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11. With such arrangement, as DC motor 14 rotates, the small pulley 20 rotates the bulley belt 22, which drives the main pulley 24. The rotation of the pulley 24 and the attractive force between the upper magnets 25 and lower magnets 26 will cause the free wheel 32 to rotate, which causes the main shaft 37, the module housing 36 and the laser diode modules 38, 39 to rotate. The '582 Patent, col. 7, lines 8-13. As the main shaft 37, the module housing 36 and the laser diode modules 38, 39 are rotated, the laser diode modules 38, 39 generate a level plane of reference light. The '582 Patent, col. 9, lines 23-26. When in plane mode, the laser evel accordingly provides "a level 360 degree reference plane." The '582 Patent, Abstract, lines 12-13.

12. I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true, and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Mr. Jerry Y. Teng

**Executive Director** 

**DeWalt Santa Clara Laser Engineering Center** 

Santa Clara, California

Date: January 21, 2002